Instructions

DSL/SVK Pumps

313261D
ENG

- For pumping exact amounts of lubrication fluids from a reservoir to specific lubrication points -

DSL Models: 256907, 256908, 256929

3000 psi (20.7 MPa, 206.8 bar) Maximum Working Pressure

SVK Models: 256904, 256905

Maximum Working Pressure: 5000 PSI (9.7 MPa/96.5 bar - 34.7 MPa/344.7 bar)*
**Pressure above 1400 PSI (9.7 MPa/96.5 bar) requires use of a high pressure sight glass*

SVK Model: 256906

Maximum Working Pressure 1400 (9.7 MPa/96.5 bar)
7

Important Safety Instructions
Read all warnings and instructions in this manual.
Save these instructions.

Part No.	Piston Size (Inches)	Max Pressure PSI (MPa/bar)	Drops / Stroke		Cubic Inches / Stroke		Cubic Centimeters / Stroke		Strokes / Minute	
			Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
256907 256908 256929	9/32	3000 psi (20.7 MPA / 206.8 bar)	6.25	2.0	0.15	0.0048	0.0245	0.079	25	3
256906	7/32	1400 psi (9.6 MPa / 96.5 bar)	3.4	0.5	0.008	0.0012	0.131	0.020	25	1
256904 256905	9/32	1400 psi / 5000 psi (9.6 MPa / 96.5 bar) / (34.4 MPa / 344.7 bar)	6.25	0.5	0.15	0.0012	0.245	0.020	25	1

⚠ WARNING

FIRE AND EXPLOSION HAZARD

When flammable fluids are present in the work area, such as gasoline and windshield wiper fluid, be aware that flammable fumes can ignite or explode. To help prevent fire and explosion:

- Use equipment only in well ventilated area.
- Eliminate all ignition sources, such as cigarettes and portable electric lamps.
- Keep work area free of debris, including rags and spilled or open containers of solvent and gasoline.
- Do not plug or unplug power cords or turn lights on or off when flammable fumes are present.
- Ground all equipment in the work area.
- Use only grounded hoses.
- If there is static sparking or you feel a shock, **stop operation immediately.** Do not use equipment until you identify and correct the problem.
- Keep a working fire extinguisher in the work area.

SKIN INJECTION HAZARD

High-pressure fluid from dispense valve, hose leaks, or ruptured components will pierce skin. This may look like just a cut, but it is a serious injury that can result in amputation. **Get immediate surgical treatment.**

- Do not point dispense valve at anyone or at any part of the body.
- Do not put your hand over the end of the dispense nozzle.
- Do not stop or deflect leaks with your hand, body, glove, or rag.
- Follow **Pressure Relief Procedure** in this manual, when you stop spraying and before cleaning, checking, or servicing equipment.

PRESSURIZED EQUIPMENT HAZARD

Fluid from the gun/dispense valve, leaks, or ruptured components can splash in the eyes or on skin and cause serious injury.

- Tighten all fluid connections before operating the equipment.
- Check hoses, tubes, and couplings daily. Replace worn or damaged parts immediately.

EQUIPMENT MISUSE HAZARD

Misuse can cause death or serious injury.

- Do not operate the unit when fatigued or under the influence of drugs or alcohol.
- Do not exceed the maximum working pressure or temperature rating of the lowest rated system component. See **Technical Data** in all equipment manuals.
- Use fluids and solvents that are compatible with equipment wetted parts. See **Technical Data** in all equipment manuals. Read fluid and solvent manufacturer's warnings. For complete information about your material, request MSDS forms from distributor or retailer.
- Check equipment daily. Repair or replace worn or damaged parts immediately with genuine manufacturer's replacement parts only.
- Do not alter or modify equipment.
- Use equipment only for its intended purpose. Call your distributor for information.
- Route hoses and cables away from traffic areas, sharp edges, moving parts, and hot surfaces.
- Do not kink or over bend hoses or use hoses to pull equipment.
- Keep children and animals away from work area.
- Comply with all applicable safety regulations.

PERSONAL PROTECTIVE EQUIPMENT

You must wear appropriate protective equipment when operating, servicing, or when in the operating area of the equipment to help protect you from serious injury, including eye injury, inhalation of toxic fumes, burns, and hearing loss. This equipment includes but is not limited to:

- Protective eyewear
- Clothing and respirator as recommended by the fluid and solvent manufacturer
- Gloves
- Hearing protection

Pressure Relief Instructions

Follow this pressure relief procedure whenever you are instructed to relieve pressure or need to check or service equipment.

To relieve pressure, loosen vent screw DSL Models: (a) in FIG. 1; SVK Models: (e) in FIG. 2, allowing pressure to vent.

DSL Models

Starting Lubricator

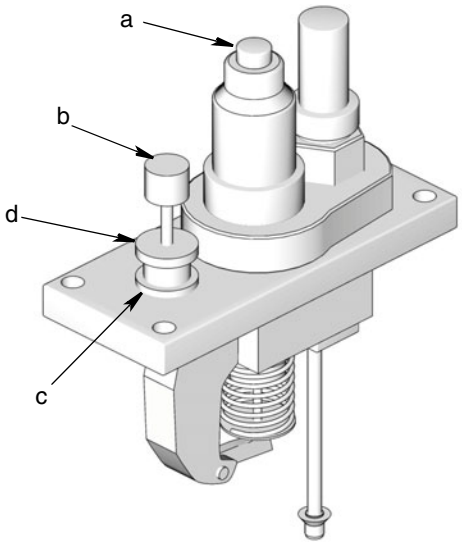


FIG. 1

1. Verify reservoir is filled with oil.
2. Remove vent screw (a) on sight dome.
3. Fill dome to upper line with oil.
4. Replace and tighten vent screw (a) (hand tight only is recommended).
5. Remove hex coupling nut on outlet fitting.
6. Prime by manually pumping spindle (b) in front of sight dome until air bubbles are purged.
7. Retighten outlet nut.

SVK Models

Starting Lubricator

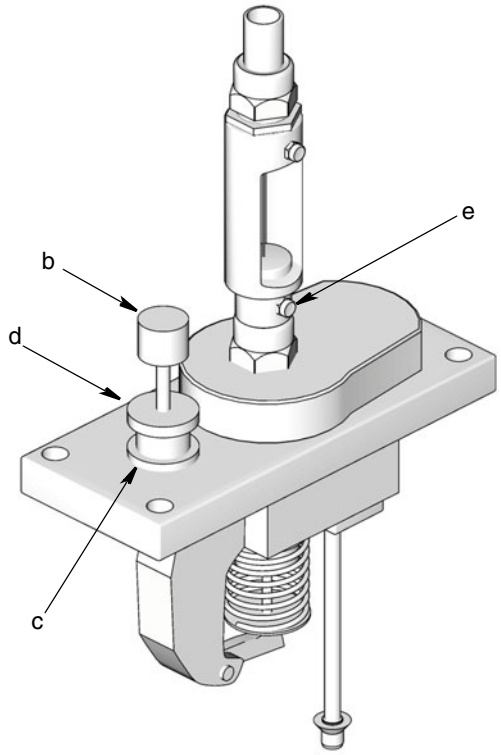


FIG. 2

To start lubricator for the first time, or to prime lubricator if it stops feeding due to lack of oil in the reservoir:

1. Verify reservoir is filled with oil.
2. Loosen or remove small hexagonal screw (e) in sight feed body.
3. Prime by manually pumping spindle (b) unit until clear oil is delivered.

NOTE: *For quicker results adjustment should be made for full amount.*

Adjusting Rate of Flow

DSL and SVK Models

1. Loosen lock nut (c) on adjustment gland.
2. To increase flow, turn adjustment gland (d) counter-clockwise, to decrease flow turn adjustment gland clockwise.
3. Tighten lock nut (c).

NOTE: *Pump unit manually each week to purge air which might be trapped in oil supply.*

Sight Feed
SVK Models Only

When lubricating with mineral oils, synthetic oils or detergent oils, keep the sight feed full of 3-M™ brand fluoroinert FC-77.

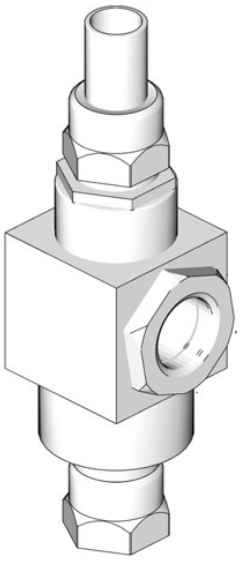


FIG. 3

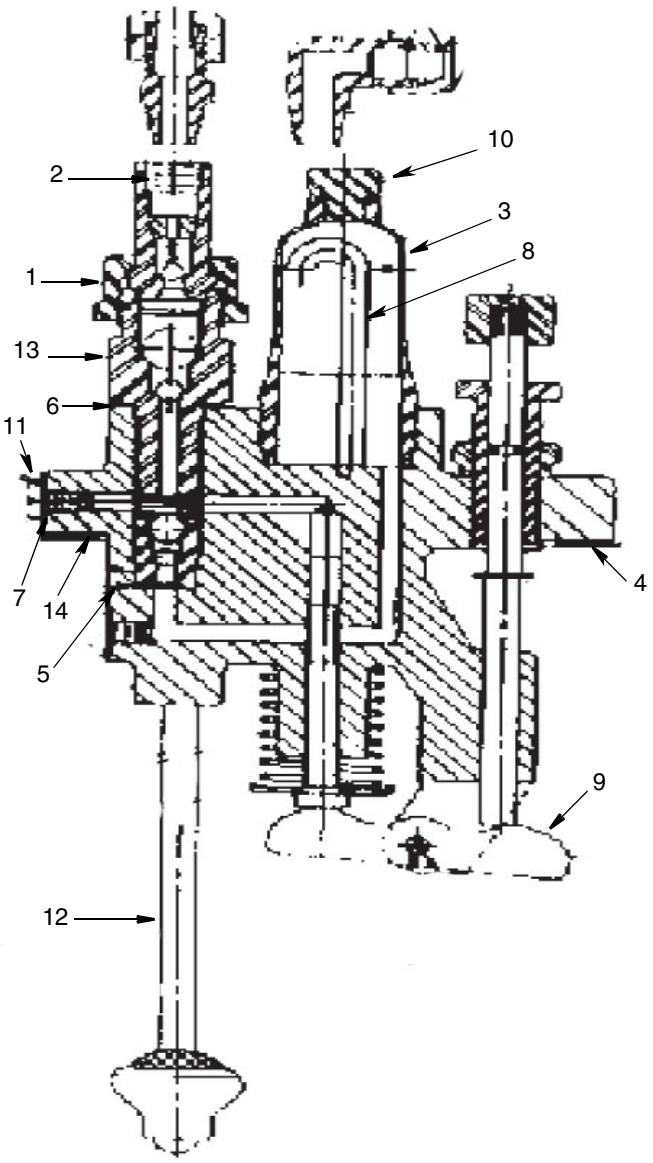
Maintenance

- Use clean oil only.
- Keep lubricator reservoir full of oil.
- Verify that all connections are tight.
- Support oil leads where excessive vibration occurs.
- Check driving device to make sure studs and links are tight and belt is in good condition.
- Flush reservoir regularly.
- Clean all pump units.
- Inspect all ball check valves for rust, carbon or gummy, dirty deposits. Replace if necessary.

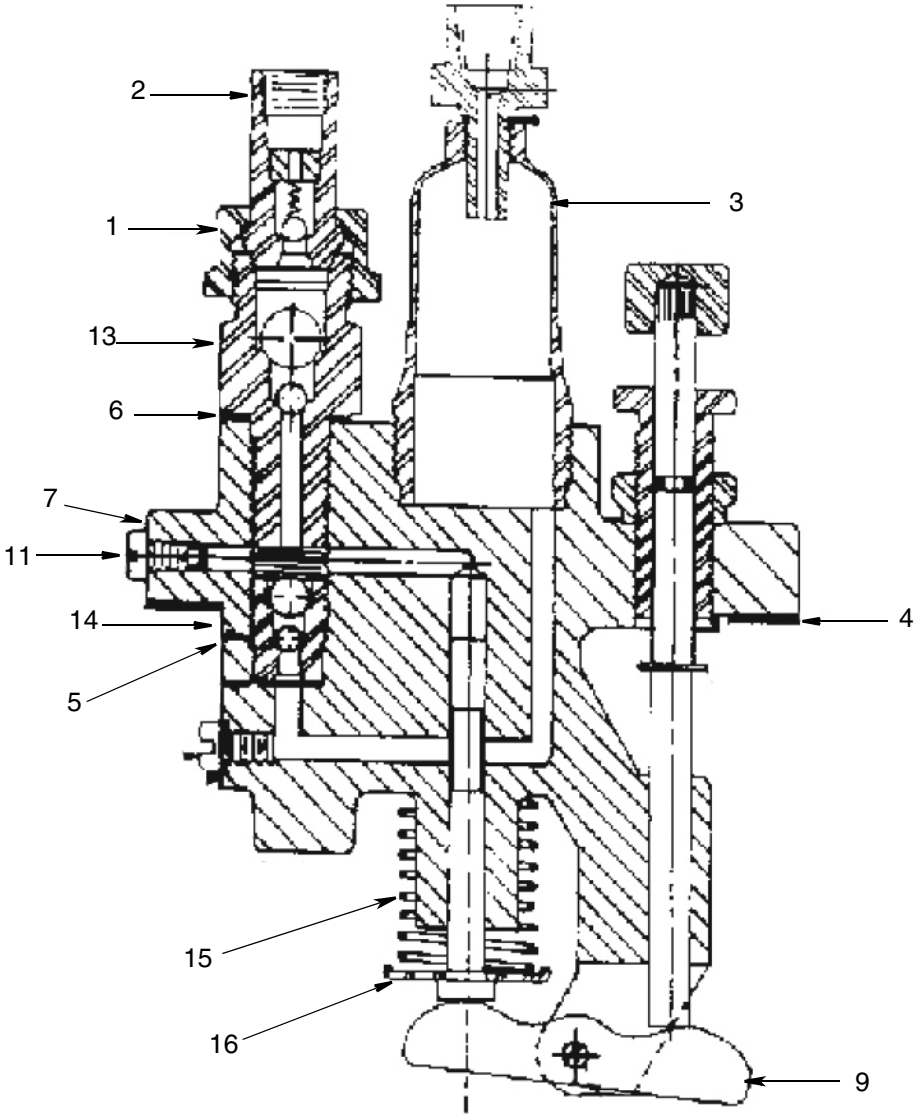
Parts DSL Models

FN	Part No.	Description	Qty
1	560104	UNION, nut	1
2	562600	OUTLET, tailpiece assembly	1
3	555875	DOME, single	1
4	555947	GASKET	1
5	555948	GASKET	1
6	555906	GASKET	1
7	555915	GASKET	1
8	560049	TUBE, drip (model 256907 only)	1
9	560017	ARM, rocker	1
10	560047	SCREW, vent (model 256907 only)	1
11	560051	SCREW	1
12	564243	TUBE, suction, assembly (model 246907 only)	1
13	562605	VALVE, outlet assembly	1
14	562606	VALVE, cage assembly	1
15	555893	SPRING, compression	1
16	555953	RETAINER, spring	1

DSL Models: 256907

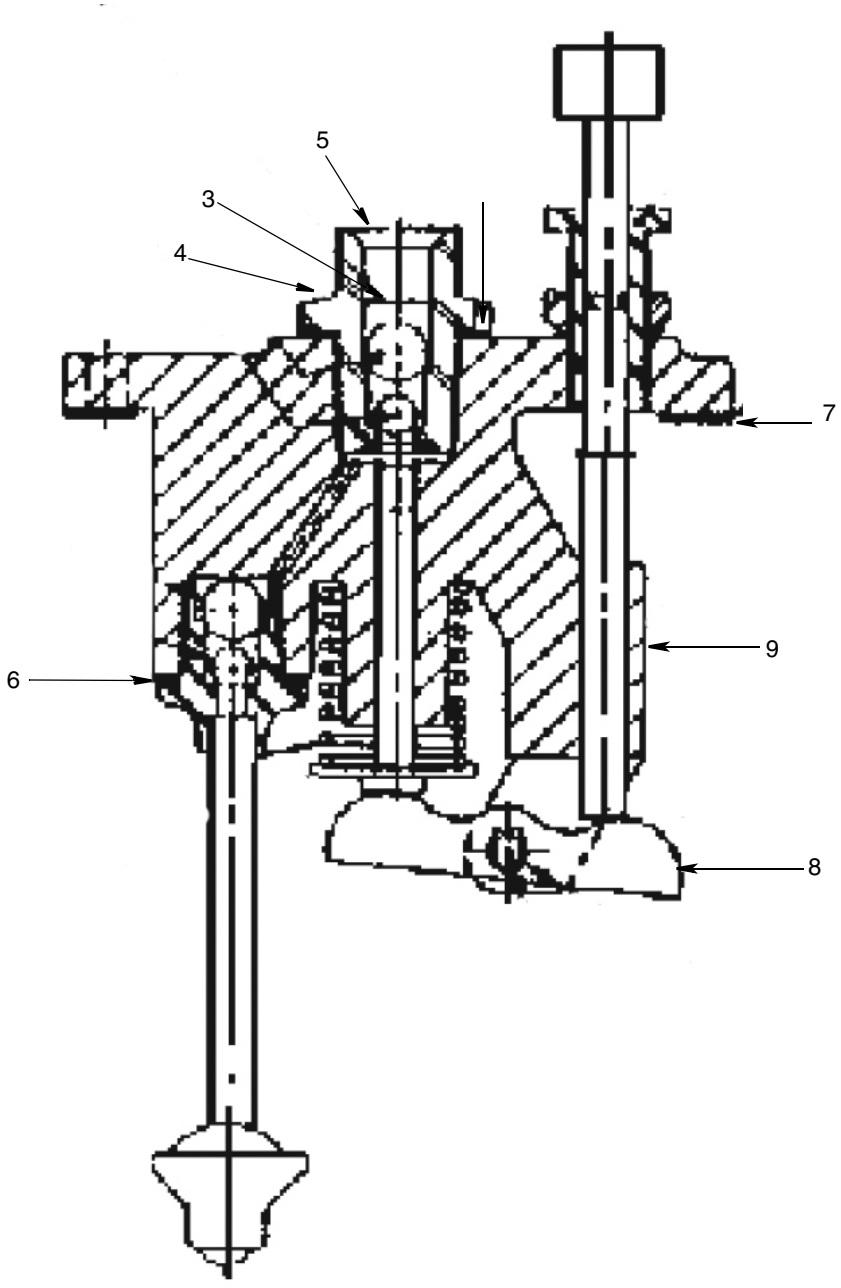


DSL Models: 256908



Parts SVK Models

FN	Part No.	Description	Qty
1	555321	GASKET	1
2	555322	GASKET	1
3		RETAINER, ball	1
4		VALVE, outlet body	1
5	562604	VALVE, outlet, complete	1
6	562607	TUBE, suction assembly	1
7	555947	GASKET	1
8	560017	ARM, rocker	1
9	562630	PUMP, assembly	1



SVK-Liquid Sight Feed Assemblies

SF1 - Part No. 562592

1400 psi (9.6 MPa, 96 bar)

Medium pressure liquid sight feed assembly. 1/2” NPTF outlet with 100% 3M™ brand fluorinert FC-77. Use with all types of mineral and synthetic oils.

SF3 - Part No. 562610

1400 psi (9.6 MPa, 96 bar)

Same as SF1, but with a 1/4” NPTF tube connector outlet.

SF5 - Part No. 562593

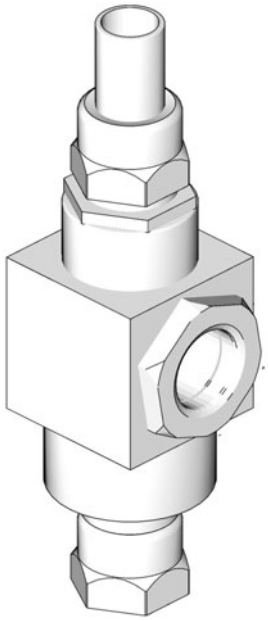
1400 psi (9.6 MPa, 96 bar)

Same as SF1 with a white background on the sight glass.

SF7 - Part No. 562595

5000 psi (34.4 MPa, 344 bar)

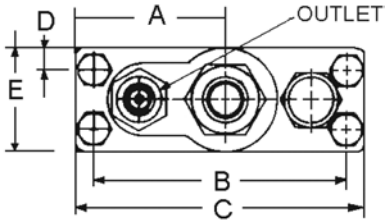
High pressure liquid sight feed assembly. 1/8” NPTF outlet with 100% 3M™ brand fluorinert FC-77. Use with all types of mineral and synthetic oils.

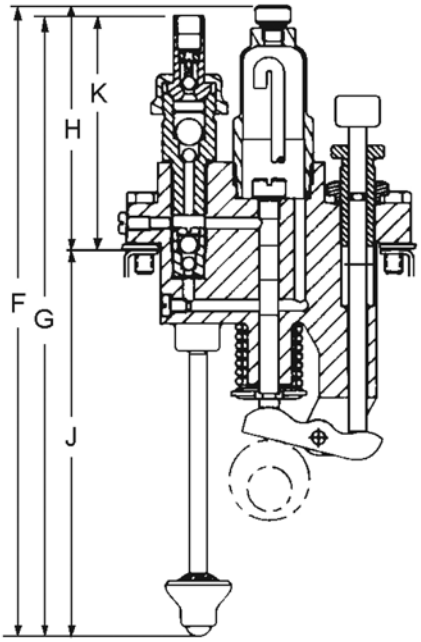


Dimensions

DSL Pump

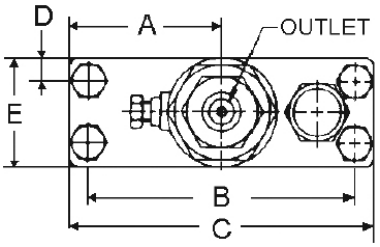
Dim	Inches	Millimeter.
A	2.06	52.4
B	3.50	88.9
C	4.00	101.6
D	0.31	7.9
E	1.44	36.5
F	8.80	223.7
G	8.67	220.1
H	3.41	86.7
J	5.39	137.0
K	3.27	83.2

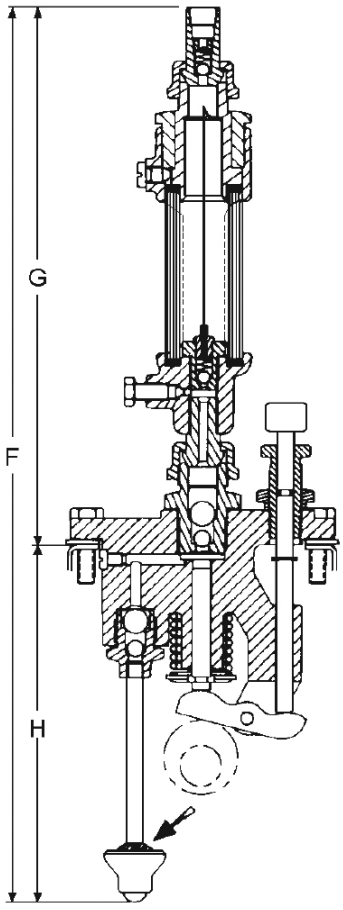




SVK Pump

Dim	Inches	Millimeter.
A	2.00	50.8
B	3.50	88.9
C	4.00	101.6
D	0.31	7.9
E	1.44	36.5
F	13.52	343.4
G	8.13	206.5
H	5.39	137.0





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Phone: 612-623-6928 **or Toll Free:** 1-800-533-9655, **Fax:** 612-378-3590

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Original instructions. This manual contains English. MM 313261

Graco Headquarters: Minneapolis
International Offices: Belgium, China, Japan, Korea

GRACO INC. P.O. BOX 1441 MINNEAPOLIS, MN 55440-1441
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www.graco.com
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